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File 5:Biosis Previews(R) 1969-2004/Apr W2
(c) 2004 BIOSIS

File 10:AGRICOLA 70-2004/Mar
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Set	Items	Description
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? s brassica or canola or rapeseed

	32535	BRASSICA
--	-------	----------

	4851	CANOLA
--	------	--------

	9598	RAPESEED
--	------	----------

S1	41798	BRASSICA OR CANOLA OR RAPESEED
----	-------	--------------------------------

? s hydroxy and fatty and acid

	132142	HYDROXY
--	--------	---------

	179534	FATTY
--	--------	-------

	1305784	ACID
--	---------	------

S2	3652	HYDROXY AND FATTY AND ACID
----	------	----------------------------

? s densipolic or ricinoleic or lesquerolic or auricolic or lesquirollic

	13	DENSIPOLIC
--	----	------------

	350	RICINOLEIC
--	-----	------------

	30	LESQUEROLIC
--	----	-------------

	13	AURICOLIC
--	----	-----------

	0	LESQUIROLIC
--	---	-------------

S3	370	DENSIPOLIC OR RICINOLEIC OR LESQUEROLIC OR AURICOLIC OR LESQUIROLIC
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? s s1 and s2 and s3

	41798	S1
--	-------	----

	3652	S2
--	------	----

	370	S3
--	-----	----

S4	6	S1 AND S2 AND S3
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? t 4/3/1-6

4/3/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0012169376 BIOSIS NO.: 199900429036

Very long chain and hydroxylated **fatty** acids in offspring of somatic hybrids between **Brassica** napus and Lesquerella fendleri

AUTHOR: Schroder-Pontoppidan M (Reprint); Skarzhinskaya M; Dixelius C; Stymne S; Glimelius K

AUTHOR ADDRESS: Department of Plant Biology, Uppsala Genetic Center, Swedish University of Agricultural Sciences, 750 07, Uppsala, Sweden** Sweden

JOURNAL: Theoretical and Applied Genetics 99 (1-2): p108-114 July, 1999 1999

MEDIUM: print

ISSN: 0040-5752

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

0010222106 BIOSIS NO.: 199698689939

Substrate selectivity in esterification of less common **fatty** acids
catalysed by lipases from different sources

AUTHOR: Jachmanian I; Schulte E; Mukherjee K D (Reprint)

AUTHOR ADDRESS: Inst. Biochem. Technol. Fette, H. P. Kaufmann-Inst., BAGKF,
Piusallee 68, D-48147 Muenster, Germany**Germany

JOURNAL: Applied Microbiology and Biotechnology 44 (5): p563-567 1996 1996

ISSN: 0175-7598

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

4/3/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0007663295 BIOSIS NO.: 199191046186

MINOR COMPONENTS OF LESQUERELLA-FENDLERI SEED OIL

AUTHOR: CHAUDHRY A (Reprint); KLEIMAN R; CARLSON K D

AUTHOR ADDRESS: US DEP AGRIC, AGRIC RES SERV, NORTHERN REGIONAL RES CENT,
1815 NORTH UNIVERSITY ST, PEORIA, ILL 61604, USA**USA

JOURNAL: Journal of the American Oil Chemists' Society 67 (11): p863-866
1990

ISSN: 0003-021X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

4/3/4 (Item 1 from file: 10)

DIALOG(R)File 10:AGRICOLA

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3804039 22025588 Holding Library: AGL

Very long chain and hydroxylated **fatty** acids in offspring of
somatic hybrids between **Brassica napus** and *Lesquerella fendleri*

Schroder-Pontoppidan, M. Skarzhinskaya, M.; Dixelius, C.; Stymne, S.;
Glimelius, K.

Swedish University, Uppsala.

Berlin; Springer-Verlag

Theoretical and applied genetics. July 1999. v. 99 (1/2) p. 108-111.

ISSN: 0040-5752 CODEN: THAGA6

DNAL CALL NO: 442.8 Z8

Language: English

4/3/5 (Item 2 from file: 10)

DIALOG(R)File 10:AGRICOLA

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3608302 20590375 Holding Library: AGL

Accumulation of **ricinoleic**, **lesquerolic**, and **densipolic**

acids in seeds of transgenic arabidopsis plants that express a **fatty**
acyl hydroxylase cDNA from castor bean

Broun, P. Somerville, C.

Language: English

4/3/6 (Item 3 from file: 10)
DIALOG(R)File 10:AGRICOLA
(c) format only 2004 The Dialog Corporation. All rts. reserv.

3590267 20577782 Holding Library: AGL
Substrate selectivity in esterification of less common **fatty** acids
catalysed by lipases from different sources
Jachmanian, I. Schulte, E.; Mukherjee, K.D.
Universidad de la Republica, Montevideo, Uruguay.
Berlin, Germany : Springer Verlag.
Applied microbiology and biotechnology. Jan 1996. v. 44 (5) p. 563-567.
ISSN: 0175-7598 CODEN: AMBIDG
DNAL CALL NO: QR1.E9
Language: English
? t 4/5/3

4/5/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0007663295 BIOSIS NO.: 199191046186
MINOR COMPONENTS OF LESQUERELLA-FENDLERI SEED OIL
AUTHOR: CHAUDHRY A (Reprint); KLEIMAN R; CARLSON K D
AUTHOR ADDRESS: US DEP AGRIC, AGRIC RES SERV, NORTHERN REGIONAL RES CENT,
1815 NORTH UNIVERSITY ST, PEORIA, ILL 61604, USA**USA
JOURNAL: Journal of the American Oil Chemists' Society 67 (11): p863-866
1990
ISSN: 0003-021X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: Routine analysis of **fatty** ester fractions of Lesquerella
fendleri oil suggested the presence of epoxy compounds and other minor
components. By a combination of open silica column and high performance
liquid chromatography (HPLC) fractionations of the methyl esters prepared
from the oil, these constituents were isolated and then characterized by
thin-layer chromatography (TLC), gas chromatography (GC), gas
chromatography-mass spectrometry (GC-MS-electron ionization, EI, and
chemical ionization, CI) and nuclear magnetic resonance (NMR-1H- and
13C). Three epoxy acids, 15,16-epoxy-9,12-octadecadienoic,
9,10-epoxy-12-octadecenoic and 9,10-epoxy-octadecanoic, were found.
Hydroxy acids present included a C-22 homologue of
lesquerolic acid (16-**hydroxy**-12-docosenoic **acid**)
and 14,15-dihydroxy-tricosanoic *****acid*****. Other minor components
included four sterols, *****brassica*****-sterol, campesterol,
 β -sitosterol and stigmasterol, and a series of saturated and
unsaturated *****fatty***** acids up to C30.

DESCRIPTORS: PLANT **FATTY** ESTER FRACTIONS EPOXY COMPOUNDS STEROLS FATS
AND OILS AGRICULTURE

DESCRIPTORS:

MAJOR CONCEPTS: Agronomy--Agriculture; Biochemistry and Molecular
Biophysics; Reproduction

10000 Biochemistry studies - General
10066 Biochemistry studies - Lipids
10067 Biochemistry studies - Sterols and steroids
10504 Biophysics - Methods and techniques
10506 Biophysics - Molecular properties and macromolecules
51512 Plant physiology - Reproduction
51522 Plant physiology - Chemical constituents
52514 Agronomy - Oil crops

BIOSYSTEMATIC CODES:

25880 Cruciferae

?